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SEQUENCE LISTING

<110> Gardella, PhD, Thomas J.
Potts, John T.
Kronenberg, H.M.
Shimizu, N.
Carter, P.

<120> Conformationally Constrained Parathyroid Hormones With
Alpha-Helix Stabilizers

<130> 0609.515PC00

<160> 52

<170> PatentIn version 3.2

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| | | | | | | | | | | | | | | | |
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Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
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Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
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Ala Lys Ser Gln

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<213> Artificial Sequence

<220>
<223> [Aib-1, Ac5c-3]PTH(1-14)

<220>
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<222> (1)..(1)
<223> Xaa represents alpha-aminoisobutyric acid

<220>
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<222> (3)..(3)
<223> Xaa represents 1-aminocyclopentane-1-carboxylic acid

-19-

<220>
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<223> AMIDATION

<400> 32

Xaa Val Xaa Glu Ile Gln Leu Met His Asn Leu Gly Lys His
1 5 10

<210> 33
<211> 9
<212> PRT
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<220>
<223> native hPTH(1-9)amide

<220>
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<223> AMIDATION

<400> 33

Ser Val Ser Glu Ile Gln Leu Met His
1 5

<210> 34
<211> 9
<212> PRT
<213> Artificial Sequence

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<223> [Aib-1,3]PTH(1-9)amide

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<223> Xaa represents alpha-aminoisobutyric acid

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<400> 34

Xaa Val Xaa Glu Ile Gln Leu Met His
1 5

<210> 35

-20-

<211> 10
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<213> Artificial Sequence

<220>
<223> [Aib-1,3, Gln-10]PTH(1-10)amide

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<223> Xaa represents alpha-aminoisobutyric acid

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<223> Xaa represents alpha-aminoisobutyric acid

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<400> 35

Xaa Val Xaa Glu Ile Gln Leu Met His Gln
1 5 10

<210> 36
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> [Aib-1,3, Nle-8, Gln-10, Har-11, Ala-12, Trp-14, Arg-19,
Tyr-21]rPTH(1-21)amide radiolabeled with Iodine isotope 125

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<220>
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<223> Xaa represents alpha-aminoisobutyric acid

<220>
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<223> Xaa represents norleucine

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<223> Xaa represents homoarginine

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<222> (21)..(21)

-21-

<223> AMIDATION

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<222> (21)..(21)

<223> Radiolabeled with Iodine isotope 125

<400> 36

Xaa Val Xaa Glu Ile Gln Leu Xaa His Gln Xaa Ala Lys Trp Leu Ala
1 5 10 15

Ser Val Arg Arg Tyr
20

<210> 37

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> [Deg-3, M] PTH(1-14)

<220>

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<223> Xaa represents alpha, alpha-diethylglycine

<220>

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<222> (11)..(11)

<223> Xaa represents homoarginine

<220>

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<223> AMIDATION

<400> 37

Ala Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 38

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> [Ac3c-3, M] PTH(1-14)

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<222> (3)..(3)

<223> Xaa represents 1-aminocyclopropane-1-carboxylic acid

<220>

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<223> Xaa represents homoarginine

<220>
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<222> (14)..(14)
<223> AMIDATION

<400> 38

Ala Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 39
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<223> Xaa represents homoarginine

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<400> 39

Ala Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 40
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<212> PRT
<213> Artificial Sequence

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<223> [Deg-1, Ac3c-3, M] PTH(1-14)

<220>
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-23-

<223> Xaa represents 1-aminocyclopropane-1-carboxylic acid

<220>

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<223> Xaa represents homoarginine

<220>

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<223> AMIDATION

<400> 40

Xaa Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 41

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> [Deg-1, Ac5c-3, M] PTH(1-14)

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<221> MISC_FEATURE

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<223> Xaa represents 1-aminocyclopentane-1-carboxylic acid

<220>

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<223> Xaa represents homoarginine

<220>

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<222> (14)..(14)

<223> AMIDATION

<400> 41

Xaa Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 42

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> [Deg-1, Aib-3, M] PTH(1-14)

-24-

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<223> Xaa represents alpha-aminoisobutyric acid

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<223> Xaa represents homoarginine

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<222> (14)..(14)
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<400> 42

Xaa Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 43
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> [Ac3c-1, Deg-3, M]PTH(1-14)

<220>
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<223> Xaa represents 1-aminocyclopropane-1-carboxylic acid

<220>
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<222> (3)..(3)
<223> Xaa represents alpha, alpha-diethylglycine

<220>
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<223> Xaa represents homoarginine

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<223> AMIDATION

<400> 43

Xaa Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 44

-25-

<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> [Ac3c-1, Ac5c-3, M]PTH(1-14)

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<222> (1)..(1)
<223> Xaa represents 1-amino-cyclopropane-1-carboxylic acid

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<223> Xaa represents 1-amino-cyclopentane-1-carboxylic acid

<220>
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<400> 44

Xaa Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 45
<211> 14
<212> PRT
<213> Artificial Sequence

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<220>
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-26-

<400> 45

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1 5 10

<210> 46

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> [Ac5c-1, Deg-3, M]PTH(1-14)

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<223> Xaa represents 1-aminocyclopentane-1-carboxylic acid

<220>

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<222> (3)..(3)

<223> Xaa represents alpha, alpha-diethylglycine

<220>

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<222> (11)..(11)

<223> Xaa represents homoarginine

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<222> (51)..(51)

<223> Xaa represents homoarginine

<400> 46

Xaa Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 47

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> [Ac5c-1, Ac3c-3, M]PTH(1-14)

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<222> (1)..(1)

<223> Xaa represents 1-aminocyclopentane-1-carboxylic acid

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<222> (3)..(3)

<223> Xaa represents 1-aminocyclopropane-1-carboxylic acid

<220>

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-27-

<222> (11)..(11)
<223> Xaa represents homoarginine

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<222> (14)..(14)
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<400> 47

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1 5 10

<210> 48
<211> 14
<212> PRT
<213> Artificial Sequence

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<220>
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<223> Xaa represents alpha, alpha-diethylglycine

<220>
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1 5 10

<210> 49
<211> 14
<212> PRT
<213> Artificial Sequence

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<220>
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<223> Xaa represents 1-aminocyclopropane-1-carboxylic acid

<220>
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<222> (14)..(14)
<223> AMIDATION

<400> 49

Xaa Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
1 5 10

<210> 50
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<223> Xaa represents alpha-aminosiobutyric acid

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<220>
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<400> 50

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1 5 10

<210> 51
<211> 14
<212> PRT
<213> Artificial Sequence

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-29-

<223> [Ac5c-1, Gln-10, Har-11, Ala-12, Trp-14]PTH(1-14)

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<223> Xaa represents homoarginine

<220>

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<400> 51

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1 5 10

<210> 52

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> [Ac5c-1]PTH(1-14)

<220>

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<221> MOD_RES

<222> (14)..(14)

<223> AMIDATION

<400> 52

Xaa Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His
1 5 10